

# Delphion

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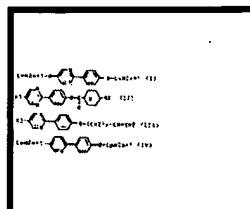
INSIDE DELPHION

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Liq. crystal mixt. used as matrix for ferroelectric liq. crystal - contains 2 5-alkoxy-2-(4-alkoxyphenyl)-pyrimidine cpds.

153

Assignee: HOECHST AG Standard company (FARH...)  
Inventor: DUBAL H R; DUEBAL H; ESCHER C; HEMMERLING W; MUELLER I; MULLER I; OHLENDORF D; WINGEN R;



Accession / Update: 1989-087286 / 198912

IPC Code: C09K 19/34 ; G02F 1/13 ;

Derwent Classes: E13; L03; P81; U11; V07;

Manual Codes: E07-D12(Pyrimidine) , L03-D01D2(Liquid crystal material mixtures) , U11-A03(Liquid crystal, electrochromic materials) , V07-K(Controlling light)

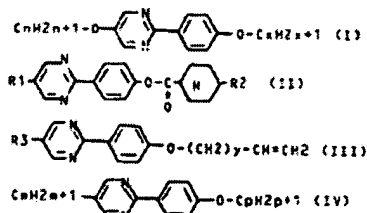
Derwent Abstract

## DERWENT RECORD

(EP0307880A) Liquid crystal mixt. contains at least two 5-alkoxy-2-(4-alkoxy-phenyl)-pyrimidines, with linear alkyl gps., of formula (I), where  $n = 6-14$ ;  $x = 2-14$ . In the mixt.,  $n$  is constant and pref. = 7-14; and the values of  $x$  differ by at least 2. The mixt. pref. contains 20-90 (mole-%) (I) and pref. also 2-40% cyclohexanecarboxylate ester(s) of formula (II), 10-35% alkenyloxy-phenyl-pyrimidine deriv(s). of formula (III) and/or 10-25% alkyl-pyrimidine-alkoxy-phenyl deriv(s). of formula (IV). In the formulae  $R_1 = 10-16C$  alkyl or 7-14C alkoxy;  $R_2 = 2-9C$  alkyl;  $R_3 = 7-16C$  alkyl or 6-14C alkoxy;  $y = 4-14$ ;  $m$  and  $p$  independently = 6-14. **USE/Advantage** - The mixts. are claimed for use as matrix for ferroelectric liquid crystal mixts., which also contain an optically active dopant and in electro-optical devices. They have favourable optical and dielectric anisotropy and a wide enough nematic phase for practical applications, esp. a low m.pt. low transition point of the lower limit of the SC phase and a much wider SC phase than that obtd. using the corresp. 5-alkyl-2-(4-alkoxy-phenyl) pyrimidine cpds.. They can give ferroelectric liquid crystal mixts. with short switching time with the phase sequence isotropic to nematic to smectic A, smectic C in which the pitch in the nematic phase is over 15 microns and in the S asterisk c phase over 5 microns, with a negative dielectric anisotropy and optical anisotropy less than 0.15.

Abstract info: EP0307880A: Dwg.0/0 , EP0307880B: Dwg.0/0 , US5071589:

Images:



Family:

Patent	Pub. Date	DW Update	Pages	Language	IPC Code
<b>EP0307880A *</b>	March 22, 1989	198912	22	German	C09K 19/34
Des. States: (R) AT BE CH DE FR GB IT LI NL SE					
Local apps.: EP1988000115003 ApplDate:1988-09-14 (88EP-0115003)					
<b>DE3887048G =</b>	Feb. 24, 1994	199409		German	C09K 19/34
Local apps.: Based on EP00307880 (EP 307880)					
EP1988000115003 ApplDate:1988-09-14 (88EP-0115003)					
DE1988003887048 ApplDate:1988-09-14 (88DE-3887048)					
<b>EP0307880B1 =</b>	Jan. 12, 1994	199403	25	German	C09K 19/34
Des. States: (R) AT BE CH DE FR GB IT LI NL SE					
Local apps.: EP1988000115003 ApplDate:1988-09-14 (88EP-0115003)					
<b>US5071589 =</b>	Dec. 10, 1991	199201	11	English	C09K 19/34
Local apps.: US1988000245408 ApplDate:1988-09-16 (88US-0245408)					

JP1096285A = April 14, 1989 198921 English C02F 3/00

Local apps.: JP1988000230221 ApplDate:1988-09-16 (88JP-0230221)

NO8804137A = April 10, 1989 198920 NO\_NO

Local apps.:

DE3831226A = March 30, 1989 198914 German C09K 19/34

Local apps.: DE1988003831226 ApplDate:1988-09-14 (88DE-3831226)

Priority Number:

Application Number	Application Date	Original Title
DE1987003731640	Sept. 19, 1987	

Citations:

EP0293910 : LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DEVICE CONTAINING SAME  
 EP0308794 : LIQUID CRYSTAL PHENYL PYRIMIDINE ESTER OF CYCLOHEXANE-CARBOXYLIC ACID WITH A  
 SMECTIC PHASE, PROCESS FOR ITS PREPARATION AND ITS USE IN LIQUID CRYSTAL MIXTURES  
 WO8604060 : PYRIMIDINES  
 - A3...199012  
 - No-SR.Pub

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1989-038598	C		
N1989-066582	N		
2 items found			

Title Terms:

LIQUID CRYSTAL MIXTURE MATRIX FERROELECTRIC LIQUID CRYSTAL CONTAIN ALKOXY ALKOXYPHENYL  
 PYRIMIDINE COMPOUND

Index Terms:

ALKOXYPHENYL



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